**Index of Claims** 

| Applicati n N .    | Applicant(s) |   |
|--------------------|--------------|---|
| 10/037,160         | HATA ET AL.  | • |
| Examin r           | Art Unit     |   |
| Cao (Kevin) Nguyen | 2173         |   |

R jected Allowed

(Thr ugh numeral) Cancelled Restricted

N n-Elect d Interference

**Appeal** 0 Objected

|          |                       | Щ.           |          |              |              |          |              |  |  |                 |
|----------|-----------------------|--------------|----------|--------------|--------------|----------|--------------|--|--|-----------------|
| Cla      | aim                   | Date         |          |              |              |          |              |  |  | $\neg$          |
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|          | 6                     | Ц            |          |              | <u> </u>     |          |              | L  | _  | Ш               |
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|          | 16<br>17              | -            | ⊢        | <del> </del> | ⊢            | <u> </u> | _            | ├-   | ├  | Н               |
|          | 17                    | <del> </del> | H        | $\vdash$     | -            | -        | <del> </del> | ├  | ├  | Н               |
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|          | 20                    | H            | ⊢        | ⊢            | $\vdash$     | ⊢        | -            | _  | H  | Н               |
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|          | 35                    | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | ļ            | <u> </u>   | <u> </u>   | Ш               |
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|          | 39                    | <u> </u>     | <u> </u> | H            | _            | <u> </u> | <u> </u>     | <u> </u>   | _  | Н               |
|          | 40<br>41              | $\vdash$     | $\vdash$ |              | -            |          | $\vdash$     | H  | $\vdash$   | $\vdash\vdash$  |
|          | 42                    | $\vdash$     | H        | H            | $\vdash$     | $\vdash$ | $\vdash$     | -  | $\vdash$   | Н               |
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|          | 46                    |              | Н        | Н            | Н            | $\vdash$ | Н            | -  | ┝  | Н               |
|          | 47                    |              | Н        | $\vdash$     | $\vdash$     |          | $\vdash$     | Н  | $\vdash$   | H               |
|          | 48                    |              |          |              |              |          |              |  | $\vdash$   | Н               |
|          | 49                    | Н            | -        |              | $\vdash$     | -        |              |  |  | H               |
|          | 50                    | Н            |          |              | Н            | Н        | Н            | $\vdash$   | $\vdash$   | Н               |

| Claim    | Γ        |          |              | _         | Dat      | е            |  |          |          | ] [        | Cla      | im       |                 | _        |   | - ( | Date     |           |        |          | $\neg$    |
|----------|----------|----------|--------------|-----------|----------|--------------|--|----------|----------|------------|----------|----------|-----------------|----------|---|-----|----------|-----------|--------|----------|-----------|
|          | Γ        | Ī        | Τ            | Γ         |          |              |  |          |          | 1          |          |          | П               |          |   |     | Г        |           |        |          |           |
| Original | l        |          |              |           |          |              |  |          |          |            | <u> </u> | Original |                 |          |   |     |          |           |        |          |           |
| .   .E   | l        |          |              |           |          |              |  |          | l        |            | Final    | rig      |                 |          |   |     |          |           |        | ı        |           |
| 0        |          |          |              |           |          |              |  |          |          | ]          |          | 0        |                 |          |   |     |          |           |        | i        |           |
| 1        | 1        | ╁╴       | ╁            | ╁         | t        | $\vdash$     | ┢╾   | $\vdash$ | $\vdash$ | ╽          |          | 51       | Н               |          |   |     | -        |           |        | Н        | -         |
| 1 2      | H        | +        | +            | ╁         | -        | ┢            | $\vdash$   | -        | ┢┈       | 1 1        |          | 51<br>52 | Н               | _        |   | _   | -        | _         |        | Н        | $\dashv$  |
| 3        | Н        | ╁╴       | ╁            | +         | $\vdash$ | ┢            | ├─   | ┢        | ┢        | łł         |          | 53       | Н               |          |   |     |          | <u> </u>  | _      |          | Н         |
|          | ╢        | ╫        | +            | ╁         | ├        |              |  | ├        | $\vdash$ | łł         |          | 54       |                 |          |   |     | $\vdash$ | _         |        | Н        | _         |
| 5        | Н        | ╁        | +            | ╁         | ┢        | -            | $\vdash$   | ├        | ⊢        | ┨          |          | 54<br>55 | $\vdash$        |          |   |     | H        | _         | _      | Н        |           |
| 6        | Н        | ╁        | ╫            | +         |          | <u> </u>     | ⊢  | $\vdash$ |          | {          |          | 55       | Н               |          |   |     |          | _         | _      | $\vdash$ |           |
| 7        | Н        | ╀        | +            | +         | ⊢        | -            | ├  | ⊢        | ⊢        | Į ⊦        |          | 56       |                 | _        |   | _   | <u> </u> | _         |        | -        |           |
| + -      | Н        | ╁        | ╁            | ╀         | ⊢        | ⊢            | ⊢  | ⊢        | ⊢        | ┨          |          | 57       | Н               |          |   | _   |          |           |        | Н        | Н         |
| 8        | Н        | ╀        | ╀            | ┼         | -        | ⊢            | ┡  | ⊢        | _        | <b>∤</b> ∤ |          | 58       |                 | _        |   |     | L        | _         |        |          | Щ         |
| 9        | Н        | +        | +            | ╄         | <u> </u> | <u> </u>     | _  | _        | _        |            |          | 59       | Н               |          |   |     | <u> </u> |           |        | Ш        | Ш         |
| 10       | Н        | +        | +            | ╄         | ↓        | _            | <u> </u>   | <u> </u> | _        | Į Į        |          | 60       | Ш               |          |   |     | _        |           |        | Ш        |           |
| 11       | Ц        | 4        | 4_           | ╄         | <u> </u> | <u> </u>     | _  | <u> </u> | _        |            |          | 61       | Щ               |          |   |     | <u> </u> |           |        |          |           |
| 12       | Ц        | 1        | $\downarrow$ | _         | _        |              |  | _        | L        | 1 1        |          | 62       |                 |          |   |     | <u> </u> |           |        | Ш        | Щ         |
| 13       | Ц        | ┸        | $\perp$      | _         |          |              | L  | L        | 匚        | 1 1        |          | 63       |                 |          |   |     |          |           |        | Ш        | Ш         |
| 14       | Ц        | 4_       |              |           |          | _            |  |          |          | 1 1        |          | 64       |                 |          |   |     |          |           |        |          |           |
| 15       | 9        | ┸        | ᆚ            |           | L        | L            |  |          |          |            |          | 65       |                 |          |   |     |          |           |        |          |           |
| 16       | L        | 丄        |              |           |          |              |  |          |          | Ιl         |          | 66       |                 |          |   |     |          |           |        |          |           |
| 17       |          |          |              |           | L.       |              |  |          |          |            |          | 67       |                 |          |   |     |          |           |        |          |           |
| 18       |          |          |              |           |          |              |  |          |          | ] [        |          | 68       |                 |          |   |     |          |           |        |          |           |
| 19       |          |          |              | Π         |          |              |  |          |          |            |          | 69       |                 |          |   |     |          |           |        |          |           |
| 20       | Г        | T        | Т            | T         |          |              |  |          |          | 1          |          | 70       |                 |          |   |     |          |           |        |          |           |
| 21       | Γ        |          | Т            |           |          |              |  |          |          | 1 [        |          | 71       | П               |          |   |     |          |           |        |          |           |
| 22       | Γ        | T        | 1            |           |          |              |  |          |          | 1 1        |          | 72       |                 |          |   |     |          |           |        |          |           |
| 23       | Т        | T        | 1            |           |          | Г            |  |          | Г        | 1 1        |          | 73       | П               |          |   |     |          |           |        | П        |           |
| 24       | Т        | T        | $\top$       | T         |          |              | 1  | Г        | _        | 1 1        |          | 74       | П               |          |   | _   |          |           |        | $\Box$   |           |
| 25       | Т        | $\top$   | $\top$       | T         |          | $\vdash$     |  |          |          | 1 1        |          | 75       |                 |          |   | _   | $\vdash$ |           |        | П        | $\vdash$  |
| 26       | T        | ✝        | $\top$       | $\dagger$ |          | ╁            | $\vdash$   | $\vdash$ | _        | 1 1        |          | 76       | Н               | _        |   |     | $\vdash$ |           |        |          | $\vdash$  |
| 27       | T        | 1        | T            |           |          |              |  | 1        | <u> </u> | 1 1        |          | 77       | Н               |          |   |     | _        |           |        | П        |           |
| 28       | T        | T        | +-           | T         |          | Т            | <del>                                     </del> | $\vdash$ | $\vdash$ | 1          |          | 78       | Н               |          |   |     | H        | _         |        |          | $\dashv$  |
| 29       | T        | 十        | ╈            | $t^-$     | 1        | ┢            |  | 一        | -        | 1 1        |          | 79       | H               | _        | _ | _   | $\vdash$ |           |        | М        | H         |
| 30       | H        | ╈        | +            | t         | $\vdash$ |              | H  | -        | ┢        | 1 1        |          | 80       | Н               | $\neg$   |   |     | $\vdash$ |           |        |          |           |
| 31       | H        | ╁        | +            | t         | -        | ┢            | -  | $\vdash$ | $\vdash$ | 1 1        | _        | 81       | H               |          |   |     | _        |           |        | $\vdash$ | $\dashv$  |
| 32       | $\vdash$ | ╁        | ╁            | ╁         |          | ┢            | ┢  | ┢        | H        | 1 1        |          | 82       | Н               | -        |   |     |          |           |        | Н        | Н         |
| 33       | ┢        | ┿        | ┿            | $\vdash$  |          | $\vdash$     |  |          | -        | l          |          | 82<br>83 | Н               | $\dashv$ |   |     |          | _         |        | -        | $\dashv$  |
| 34       | ┢╌       | ╅        | +            | 十         | _        | $\vdash$     |  | ┢        |          | 1          | -        | 84       | Н               | -        | _ |     | -        |           |        | $\vdash$ | $\vdash$  |
| 35       | t        | ╁        | +-           | ╁╌        | H        | $\vdash$     | ├  | ┝        |          | l          | -        | 85       | $\vdash$        | -        |   |     |          |           | _      | Н        | -         |
| 36       | ┢        | ╁        | +            | $\vdash$  | $\vdash$ | -            | ├  |          | -        | l          |          | 86       | Н               | _        |   |     | -        |           |        | $\vdash$ | $\vdash$  |
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| 39       |          | ╁╴       | ╁            | +         | $\vdash$ | $\vdash$     | ⊢  | -        |          |            |          | 89       | $\dashv$        | -        | _ | _   | -        | _         | _      | Н        |           |
| 40       | -        | ╁        | +            | +         | ⊢        | -            | <u> </u>   | -        | ┝        | lŀ         |          | 90       | Н               | -        | _ |     | -        |           |        | Н        | $\dashv$  |
| 41       | ⊢        | ╁        | ╁            | ╁         | H        | $\vdash$     | <u> </u>   | $\vdash$ | ├        | l ⊦        |          | 91       | $\vdash$        | -        | - |     | $\vdash$ |           | _      | Н        |           |
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| 43       | $\vdash$ | ╁        | ╁            | -         | ⊢        | <del> </del> |  | $\vdash$ | _        |            |          | 92       | $\vdash$        | _        | _ |     |          |           | _      | $\dashv$ | $\vdash$  |
| 43       | -        | ╀        | +            | ╀         | $\vdash$ | <u> </u>     | H  | H        | $\vdash$ | -          |          | 93       | $\vdash \vdash$ |          |   |     | Щ.       | $\square$ | _      | $\dashv$ |           |
|          | -        | ╀        | ╁            | ⊢         | $\vdash$ | <u> </u>     | <u> </u>   | $\vdash$ | $\vdash$ |            |          | 94       | $\vdash \vdash$ | $\dashv$ |   |     |          |           | _      | $\dashv$ | $\dashv$  |
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| 46       | L        | ╀        | +            |           |          | $\vdash$     | $\vdash$   | $\vdash$ | Н        |            |          | 96       | $\sqcup$        | _        | _ | _   | Ш        |           | _      | $\dashv$ | $\dashv$  |
| 47       | L        | $\vdash$ | +            | ـ         | ļ.,      | _            | _  | Щ        |          |            |          | 97       | $\sqcup$        | _        | _ |     | -        |           |        | Щ        | Ш         |
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| 50       | _        |          | 1            |           |          |              |  | L,       |          | l          |          | 100      |                 |          |   |     |          |           |        |          |           |
|          |          |          |              |           |          |              |  |          |          |            |          |          |                 |          |   |     |          |           |        |          |           |

| Cla      | aim               |              |                   |                                     | [                 | Date     | е —  |          |              |                 |
|----------|-------------------|--------------|-------------------|-------------------------------------|-------------------|----------|--|----------|--------------|-----------------|
| Final    | Original          |              |                   |                                     |                   |          |  |          |              |                 |
|          |                   |              |                   |                                     |                   |          |  |          |              |                 |
|          | 101               |              |                   |                                     |                   |          |  |          |              |                 |
| _        | 102<br>103        | · _          | _                 |                                     | _                 | <u> </u> | _  | <u> </u> | _            |                 |
|          | 103               | _            | ⊢                 | <u> </u>                            | ┝                 | ├        | <u> </u>   |          |              | _               |
|          | 105               | _            |                   | -                                   | ├                 | ⊢        | -  |          | $\vdash$     | Н               |
|          | 106               |              | -                 | $\vdash$                            | ┝                 | ┢        |  | $\vdash$ | -            | Н               |
|          | 107               | $\vdash$     | ┢                 | $\vdash$                            | ┢                 |          | -  | H        | H            | Н               |
|          | 108               |              |                   |                                     | Т                 |          |  |          | $\vdash$     |                 |
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|          | 110               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 111<br>112<br>113 | L            | $ldsymbol{f eta}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $ldsymbol{f eta}$ | <u> </u> | _  |          | _            | Ш               |
|          | 112               |              | <u> </u>          | $\vdash$                            | $\vdash$          | ├_       | _  | <b> </b> | <u> </u>     | Щ               |
|          | 113               | <u> </u>     | $\vdash$          | -                                   | $\vdash$          | ├        | -  | $\vdash$ | $\vdash$     | $\vdash \vdash$ |
|          | 114<br>115        |              | $\vdash$          | $\vdash$                            | $\vdash$          | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash \vdash$ |
|          | 116               |              | $\vdash$          | $\vdash$                            | -                 | H        | H  | -        | -            | $\vdash \vdash$ |
|          | 117               |              | Т                 |                                     |                   | T        | <del>                                     </del> | T        | Т            | Н               |
|          | 118               |              |                   | Г                                   | Г                 | Г        |  | $\vdash$ | ı            |                 |
|          | 119               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 120               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 121               | L.           |                   | $ldsymbol{f eta}$                   | _                 | _        | <u> </u>   | _        |              | Ш               |
|          | 122<br>123        | <u> </u>     |                   | _                                   | <u> </u>          | <u> </u> |  | _        |              | Щ               |
|          | 123               | <del> </del> |                   | ┝                                   | ┝                 | ├—       | <u> </u>   | ⊢        | H            | Н               |
| _        | 124               |              |                   | -                                   | ⊢                 | ├—       | ┝  | $\vdash$ | -            | Н               |
|          | 125<br>126        |              |                   |                                     | -                 | ┢        | -  |          |              | Н               |
|          | 127               |              |                   |                                     |                   | ┢        | ┪  | T        |              |                 |
|          | 128<br>129        |              |                   |                                     |                   |          |  |          |              |                 |
|          | 129               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 130               |              | _                 |                                     |                   |          |  |          |              |                 |
|          | 131<br>132        |              | <u> </u>          |                                     | <u> </u>          | _        |  |          |              | Щ               |
|          | 132               | _            |                   |                                     | ├-                | <b>-</b> | _  | <u> </u> | $\vdash$     | Н               |
|          | 133<br>134        | -            | <u> </u>          | $\vdash$                            | -                 | $\vdash$ | ├  |          | <del> </del> | $\vdash$        |
| $\vdash$ | 135               | $\vdash$     | $\vdash$          | H                                   | $\vdash$          | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | $\dashv$        |
|          | 136               | _            | Ι-                | Н                                   | $\vdash$          | $\vdash$ | ┢  | Н        |              | $\vdash$        |
|          | 137               |              |                   |                                     |                   |          |  | $\Box$   |              |                 |
|          | 138               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 139               |              |                   |                                     |                   |          | L  |          |              | $\Box$          |
|          | 140               | Ш            | L.,               | L.,                                 | $oxed{oxed}$      | Щ        | L  | <u> </u> | Щ            | Ш               |
|          | 141               |              |                   |                                     |                   |          |  |          | Н            | $\dashv$        |
|          | 143               | _            | -                 | -                                   | H                 | -        | -  | $\vdash$ | Н            | $\dashv$        |
|          | 144               |              | ١                 | Н                                   | Н                 | _        | Н  | Н        | H            | $\dashv$        |
|          | 145               |              | Т                 | Н                                   | Н                 | Н        | $\vdash$   | $\vdash$ | Н            | $\dashv$        |
|          | 146               |              |                   |                                     |                   |          | П  |          | П            | $\dashv$        |
|          | 147               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 148               |              |                   |                                     |                   |          |  |          |              |                 |
|          | 149               |              | Щ                 | Щ                                   | $oxed{oxed}$      | Ш        | Ш  | Щ        | Щ            | Щ               |
|          | 150               |              |                   |                                     |                   | Ш        |  |          |              | $\sqcup$        |